QP Code : 16000

		(3 Hours) [Total Marks :	169
N.B	(2	2) Question no. 1 is compulsory. 2) All questions carry equal marks. 3) Attempt any four questions out of the rest.	
1.	(a) (b)	Discuss various Models of Distributed System? Differentiate between NOS and DOS giving examples of each?	10 10
2.	(a)	What is the difference between Stateful and Stateless server implementation models? Give example of distributed applications using each of the implementation model.	10
	(b)	What do you understand by clock synchronization in distributed systems? Explain one technique of logical clock synchronization.	10
3.	(a) (b)	Explain Code Migration and the role of Mobile Agents? List down the issues in designing Distributed Load balancing techinque. Explain any two in detail.	10 10
4.	(a) (b)	Explain the issues to be handled while designing DSM. Explain RPC Call semantics.	10 10
5.	(a) (b)	What are the various Group Communication protocols, Explain any one. How Deadlock Detection is different for a distributed system. Explain any one algorithm of Distributed Deadlock Detection.	10 10
6.	(a)	Explain Distributed algorithm for Mutual Exclusion. What are the advantages and the disadvantages of it over Centralized algorithms.	10
	(b)	Explain Process Migration in Heterogeneous environment.	10
7.	Ans	wer any two:— (a) Lightweight RPC (b) Name Production in DNS	20
		(b) Name Resolution in DNS.	

(c) Data Centric and Client Centric Consistency Models.

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